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•	Application No.	Applicant(s)	<b>VQ F</b> • · · ·
Notice of Allewshility	10/605,766	FURUKAWA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Stephen W. Smoot	2813	
The MAILING DATE of this communication appeals of the communication appeals of the communication appeals of the Office of Allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Report to the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicated IGHTS. This application is subjected and MPEP 1308.	application. If not include tion will be mailed in due of	d ourse. THIS
<ol> <li>This communication is responsive to <u>applicant's amendme</u></li> </ol>	ent filed on 11 October 2004.		
2. X The allowed claim(s) is/are 1-8 and 16-27.			
3. $igotimes$ The drawings filed on <u>24 October 2003</u> are accepted by th	e Examiner.		
4. Acknowledgment is made of a claim for foreign priority ur  a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Lidentifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the composition of the deponant of	e been received. e been received in Application Note the been received in the following the beautiest of BIOLOGICAL MATERIA in the beautiest of bea	nis national stage application of the front (not the 21(d).  L must be submitted. Notes in the submitted. Notes in the submitted. Notes in the submitted.	uirements  OTICE OF  back) of
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summand Paper No./Mail Paper No./Mail 7. Examiner's Ame 8. Examiner's State 9. Other	Date Indment/Comment  ement of Reasons for Allow	wance
U.S. Patent and Trademark Office			

## **DETAILED ACTION**

This Office action is in response to applicant's amendment filed on 11 October 2004.

## Allowable Subject Matter

- 1. Claims 1-8, 16-27 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
  - Claims 1-8, 21 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method of forming a gas dielectric with support structure that includes providing a conductive structure in a wiring-layer dielectric, wherein the conductive structure is separated from the wiring-layer dielectric by a vertical structure and wherein the wiring-layer dielectric and the vertical structure are removed from an area that underlies a support connected to the conductive structure;
  - Claims 16-20, 22-26 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method of forming a gas dielectric with support structure that includes forming a conductive structure

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in a wiring-layer dielectric, wherein the conductive structure is separated from the wiring-layer dielectric by a vertical structure and wherein the wiring-layer dielectric and the vertical structure are removed from an area that underlies a support connected to and coplanar to a top surface of the conductive structure; and

• Claim 27 is allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method of forming a gas dielectric with support structure that includes providing a conductive structure in a wiring-layer dielectric, wherein the conductive structure is formed between a vertical sacrificial spacer, wherein a top portion of the vertical sacrificial spacer is removed, and wherein a material that is both coplanar to a stopping layer and also connects to the conductive structure is formed on the vertical sacrificial spacer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Conclusion**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen W. Smoot whose telephone number is 571-272-1698. The examiner can normally be reached on M-F (8:00 am to 4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).